Jumbled Words

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Chapter 1

Project Name Source Code

The folders and files for this project are as follows:

...

Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

jumbledWordsTest.TestGame 7
jumbledWordsTest.TestLeaderboard 7
jumbledWordsTest.TestUser 7

Chapter 3

File Index

3.1 File List

Here is a list of all documented files with brief descriptions:

src/leaderBoard.py 9
src/main_start.py 10
src/readWords.py 11
src/scoreAllocator.py 12
src/settings.py 12
src/user.py 14
src/UserGUI.py 16

Chapter 4

Class Documentation

4.1 jumbledWordsTest.TestGame Class Reference

Public Member Functions

- def **test_correct_word_list_request** (self)
- def **test_incorrect_word_list_request** (self)
- def **test_score_allocator_easy** (self)
- def **test_score_allocator_medium** (self)
- def **test_score_allocator_hard** (self)
- def **test_wordValidator** (self)

The documentation for this class was generated from the following file:

- src/jumbledWordsTest.py

4.2 jumbledWordsTest.TestLeaderboard Class Reference

Public Member Functions

- def **test_leaderboard_size** (self)
- def **test_leaderboard_sorted** (self)
- def **test_leaderboard_topScorer** (self)
- def **test_leaderboard_topScorer** (self)

The documentation for this class was generated from the following file:

- src/jumbledWordsTest.py

4.3 jumbledWordsTest.TestUser Class Reference

Public Member Functions

- def **test_addUser** (self)
- def **test_updateUser** (self)
- def **test_keepHighestUserScore** (self)

The documentation for this class was generated from the following file:

- src/jumbledWordsTest.py

Chapter 5

File Documentation

5.1 src/leaderBoard.py File Reference

Functions

- def leaderBoard.getScores ()
  getScores function
- def leaderBoard.getLeaderboard ()
  getLeaderboard function
- def leaderBoard.show ()
  show function

5.1.1 Detailed Description

Author

Muneeb Arshad, Shesan Balachandran, Bill Nguyen @title LeaderBoard

Date

April 4, 2021

5.1.2 Function Documentation

5.1.2.1 getLeaderboard()

```
def leaderBoard.getLeaderboard ( )
```

getLeaderboard function

This function is used to gets the top 10 highest scores

Returns

a list with the top 10 users

5.1.2.2 getScores()

```
def leaderBoard.getScores ( )
```

getScores function

This function is used to get all the scores from the userData.json file

Returns

a list of users and their scores

5.1.2.3 show()

```
def leaderBoard.show ( )
```

show function

function is used to display the leaderboard

5.2 src/main_start.py File Reference

Functions

- def main_start.start_main_page ()
  start_main_page

Variables

- string **main_start.gameMode** = ""
- string **main_start.difficulty** = ""
- **main_start.username** = None

5.2.1 Detailed Description

Author

Muneeb Arshad, Shesan Balachandran, Bill Nguyen @title main_start

Date

April 4, 2021

5.2.2 Function Documentation

5.2.2.1 start_main_page()

```
def main_start.start_main_page ( )
```

start_main_page

function is used to start and display the main menu page and initializes everything in order for the game to work

5.3 src/readWords.py File Reference

Functions

- def readWords.getWords (category, difficulty)
  getWords function

5.3.1 Detailed Description

Author

Muneeb Arshad, Shesan Balachandran, Bill Nguyen @title Read Words

Date

April 4, 2021

5.3.2 Function Documentation

5.3.2.1 getWords()

```
def readWords.getWords (
              category,
              difficulty )
```

getWords function

This function is used to get a list of words based on category and difficulty level

Parameters

category	is a string representing the desired category
difficulty	is a string representing the desired difficulty level

Returns

a list of stings which represents words based on category and difficulty level

5.4 src/scoreAllocator.py File Reference

Functions

- def scoreAllocator.addScore (difficulty, points)
  addScore function

5.4.1 Detailed Description

Author

Muneeb Arshad, Shesan Balachandran, Bill Nguyen @title Score Allocator

Date

April 4, 2021

5.4.2 Function Documentation

5.4.2.1 addScore()

```
def scoreAllocator.addScore (
            difficulty,
            points )
```

addScore function

This function is used to allocate score to the user based on difficulty level

Parameters

points	is an integer representing the number of points
difficulty	is a string representing the desired difficulty level

Returns

an integer representing the total number points in one session

5.5 src/settings.py File Reference

Functions

- def **settings.back** (main_window)
- def settings.optionGameMode (main_window, user)

  optionGameMode function
- def settings.optionDifficulty (main_window)

  optionDifficulty function
- def settings.start_game (args, main_window)

  start_game function
- def settings.option (main_window)

  option function

Variables

- **settings.username** = None

5.5.1 Detailed Description

Author

Muneeb Arshad, Shesan Balachandran, Bill Nguyen @title Settings

Date

April 4, 2021

5.5.2 Function Documentation

5.5.2.1 option()

```
def settings.option (
              main_window )
```

option function

This function is used to display the categories setting page and save the selected category

Parameters

main_window	

5.5.2.2 optionDifficulty()

```
def settings.optionDifficulty (
```

```
                main_window )
```

optionDifficulty function

This function is used to display difficulty setting page and save selected difficulty level

Parameters

main_window	

5.5.2.3 optionGameMode()

```
def settings.optionGameMode (
                main_window,
                user )
```

optionGameMode function

This function is used to display the game mode setting page and save the selected game mode

Parameters

main_window	
user	represents the selected user

5.5.2.4 start_game()

```
def settings.start_game (
                args,
                main_window )
```

start_game function

Once all settings have been selected this method is used to start the game based on the given settings

Parameters

args	
main_window	

5.6 src/user.py File Reference

Functions

- def user.addUser (username)

addUser function

- def user.updateScore (username, score)

  updateScore function

Variables

- string **user.filename** = "data/userData.json"

5.6.1 Detailed Description

Author

Muneeb Arshad, Shesan Balachandran, Bill Nguyen @title User

Date

April 4, 2021

5.6.2 Function Documentation

5.6.2.1 addUser()

```
def user.addUser (
              username )
```

addUser function

This function is used to add user to database

Parameters

username	is a string representing the selected username

5.6.2.2 updateScore()

```
def user.updateScore (
              username,
              score )
```

updateScore function

This function is used to update the score of selected user to the database

Parameters

username	is a string representing the selected username
score	is an integer that represents the score of the user

5.7 src/UserGUI.py File Reference

Functions

- def UserGUI.username_page (main_window)

  username_page

5.7.1 Detailed Description

Author

Muneeb Arshad, Shesan Balachandran, Bill Nguyen @title UserGUI

Date

April 4, 2021

5.7.2 Function Documentation

5.7.2.1 username_page()

```
def UserGUI.username_page (
              main_window )
```

username_page

This function is used to display the username setting page

Parameters

main_window	

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